Fig. 1a) 1 / 18

1	gaggaggccc	gagaggagtc	ggtggcagcg	gcggcggcgg	gaccggcagc	agcagcagca
61						
geageageag caaceactag ceteetgee egeggegttg egaegeste teaceegee gtteteageg etgeeegaee eegetggege geete eagegeetea gttgteetee gaetegeeet eggeettege geageste geageage acageacage acageecagg catagetteg geageste eegeggeag eteetetgge acgeeetge geegaeatte tggagses eegeggegee eggeagaggegeetgeegaegeeggeggeggeggeggeggeggeggeggeggeg						
geageageag caaccactag ceteetgee egeggegttg egacted teaccegee gtteteageg etgeeegace eegetggege geet geagegeetea gttgteetee gaetegeeet eggeettege geageg41 geacegeage acageacage acageceagg catagetteg geageg301 eetgeggeag eteetetgge acgteeetge geegacatte tgga ceaaaateaa etegettgee eacetgegeg eegegeeetg eacetg1 agetggege eggeagagga aaggageee tggagtegea gtaeg421 tggceateaa acacgtggag aaggacegga ttteegactg ggga						
geageageag caaceactag ceteetgee egeggegttg egaegeste teagegeetea gtteteageg etgeeegaee eegetggege geetes eagegeetea gttgteetee gaetegeeet eggeettege geageste etgeggeag eteetetgge aegteeetge geegaeatte tggagsel eegetggege eggeageste geageste gaegeste geageste geage						
301						
361	ccaaaatcaa	ctcgcttgcc	cacctgcgcg	ccgcgccctg	caacgacctg	cacgccacca
421						
481						
541	tggccatcaa	acacgtggag	aaggaccgga	tttccgactg	gggagagctg	cctaatggca
601	ctcgagtgcc	catggaagtg	gtcctgctga	agaaggtgag	ctcgggtttc	tccggcgtca
661		ggactggttc				
721		agatctcttc				
781		cttctggcag				
841		catcaaggac				
901		cgggtcgggg				
961		tagccctcca				
1021	cagtctggtc	cctggggatc	ctgctgtatg	atatggtgtg	tggagatatt	cctttcgagc
1081	atgacgaaga	gatcatcagg	ggccaggttt	tcttcaggca	gagggtctct	tcagaatgtc
1141	agcatctcat	tagatggtgc	ttggccctga	gaccatcaga	taggccaacc	ttcgaagaaa
1201	tccagaacca	tccatggatg	caagatgttc	tcctgcccca	ggaaactgct	gagatccacc
1261	tccacagcct	gtcgccgggg	cccagcaaat	agcagccttt	ctggcaggtc	ctcccctctc
1321	ttgtcagatg	cccgagggag	gggaagcttc	tgtctccagc	ttcccgagta	ccagtgacac
1381	gtctcgccaa	gcaggacagt	gcttgataca	ggaacaacat	ttacaactca	ttccagatcc
1441	caggcccctg	gaggctgcct	cccaacagtg	gggaagagtg	actctccagg	ggtcctaggc
1501	ctcaactcct	cccatagata	ctctcttctt	ctcataggtg	tccagcattg	ctggactctg
1561	aaatatcccg	ggggtggggg	gtgggggtgg	gcagaaccct	gccaatggaa	ctctttcttc
1621	atcatgagtt	ctgctgaatg	ccgcgatggg	tcaggtaggg	gggaaacagg	ttgggatggg
1681	ataggactag	cacattttaa	gtccctgtca	cctcttccga	ctctttctga	gtgccttctg
1741	tggggactcc	ggctgtgctg	ggagaaatac	ttgaacttgc	ctcttttacc	tgctgcttct
1801	ccaaaaatct	gcctgggttt	tgttccctat	ttttctctcc	tgtcctccct	caccccctcc
1861	ttcatatgaa	aggtgccatg	gaagaggcta	cagggccaaa	cgctgagcca	cctgcccttt
1921	tttctgcctc	ctttagtaaa	actccgagtg	aactggtctt	cctttttggt	ttttacttaa
1981	ctgtttcaaa	gccaagacct	cacacacaca	aaaaaatgca	caaaccaagc	aatcaacaga
2041	aaagctgtaa	atgtgtgtac	agttggcatg	gtagtataca	aaaagattgt	agtggatcta
2101	atttttaaga	aattttgcct	ttaagttatt	ttacctgttt	ttgtttcttg	ttttgaaaga
2161	tgcgcattct	aacctggagg	tcaatgttat	gtatttattt	atttatttat	ttggttccct
2221	tcctattcca	agcttccata	gctgctgccc	tagttttctt	tcctcctttc	ctcctctgac
2281	ttggggacct	tttgggggag	ggctgcgacg	cttgctctgt	ttgtggggtg	acgggactca
2341	ggcgggacag	tgctgcagct	ccctggcttc	tgtggggccc	ctcacctact	tacccaggtg
		ctgtgggtga				
		tctggatggt				
		ctggttttat				gagatcttat
2581	tttttttta	tacttgcgtt	tggaataaaa	accctttggc	ttt	

## Fig. 1b)

```
mllskinsla hlraapcndl hatklapgke keplesqyqv gpllgsggfg svysgirvsd nlpvaikhve kdrisdwgel pngtrvpmev vllkkvssgf sgvirlldwf erpdsfvlil erpepvqdlf dfitergalq eelarsffwq vleavrhchn cgvlhrdikd enilidlnrg elklidfgsg allkdtvytd fdgtrvyspp ewiryhryhg rsaavwslgi llydmvcgdi pfehdeeiir gqvffrqrvs secqhlirwc lalrpsdrpt feeiqnhpwm qdvllpqeta eihlhslspg psk
```

1	gggatgctct	tgtccaagat	caactccctg	gcccacctgc	gcgcagcccc	ttgcaacgac
61	ctgcacgcca	acaagctggc	gccgggcaaa	gagaaggagc	ccctggagtc	gcagtaccag
121	ataggcccgc	tgttgggcag	cggtggcttc	ggctcggtct	actcgggcat	ccgcgtcgcc
181	gacaacttgc	cggtggccat	caagcacgtg	gagaaggacc	ggatttccga	ctggggggaa
241	ctqcccaacg	gcacccgagt	gcccatggaa	gtggtcctgc	tgaagaaggt	gagctcgggc
301	ttctcqqqcq	tcattagact	tctggactgg	ttcgagaggc	ccgatagttt	cgtgctgatc
361	ctggagaggc	ccgaacccgt	gcaagacctc	ttcgacttca	tcaccgagcg	aggagccctc
421	caqqaqqaqc	tggcccggag	cttcttctgg	caggtgctgg	aggccgtgcg	gcattgccac
481	aactgcgggg	ttctccaccg	cgacatcaag	gacgagaaca	tcttaatcga	cctgaaccgc
541	ggcgaactca	aactcatcga	cttcgggtcg	ggggcgctgc	tcaaggacac	agtctacacg
601	qactttgacg	gaacccgagt	gtacagtcct	ccagagtgga	ttcgctacca	tcgctaccac
661	qqcaqqtcgg	ctgctgtttg	gtccctgggg	atcctgctct	atgacatggt	ctgcggagat
721	attccatttg	agcacgacga	agagatcgtc	aagggccaag	tgtactttag	gcaaagggtc
781	tcttcagaat	gtcaacatct	tattagatgg	tgcctgtccc	tgagaccatc	ggaccggccc
841	tcctttgaag	aaatccagaa	ccatccgtgg	atgcaggatg	ttctcctgcc	ccaggccacc
901	gccgagattc	atctgcacag	cctgtcacca	tcacccagca	aatagcagcc	attctgtcag
961	accetecagg	gaagagagag	cttgtctgct	ggcctccaac	aggaccctgc	tctacgatgc
1021	agggacagaa	atgacaactc	attccaggct	ccggggtccc	tggagcaacc	tccctcaagg
1081	aqaaqagact	agttcactcg	tcctggaccc	cgctttgccc	ctcacagact	cagtggcgtc
1141	caqtqtqqct	ggcgtccgca	gagtcccggg	tgttgggggg	ggaggtggga	gtgggtcaga
1201	gccctgtcat	ggaactttag	tcaccatgga	gactgtgggt	caccaagatg	ggccagggta
1261	ggggaaaaac					

Fig. 1d) 4 / 18

1	mllskinsla	hlraapcndl	hanklapgke	keplesqyqv	gpllgsggfg	svysgirvad
61	nlpvaikhve	kdrisdwgel	pngtrvpmev	vllkkvssgf	sgvirlldwf	erpdsfvlil
121	erpepvqdlf	dfitergalq	eelarsffwq	vleavrhchn	cgvlhrdikd	enilidlnrg
181	elklidfgsg	allkdtvytd	fdgtrvyspp	ewiryhryhg	rsaavwslgi	llydmvcgdi
241	pfehdeeivk	gqvyfrqrvs	secqhlirwc	lslrpsdrps	feeiqnhpwm	qdvllpqata
	eihlhslsps					

1	atgctcctgt	ccaagatcaa	ctccctggcc	cacctgcgcg	cccgcccctg	caacgacctg
61	cacgccacca	agctggcgcc	gggcaaagag	aaggagcccc	tggagtcgca	gtaccaggtg
121	ggcccgctgt	tgggcagcgg	tggcttcggc	tcggtctact	ctggcatccg	cgtcgccgac
181			gcacgtggag			
241	cccaatggca	cccgagtgcc	catggaagtg	gtcctgttga	agaaggtgag	ctcggacttc
301	tcgggcgtca	ttagacttct	ggactggttc	gagaggcccg	atagtttcgt	gctgatcctg
361	gagaggcccg	aaccggtgca	agacctcttc	gactttatca	ccgaacgagg	agccctacag
421			cttctggcag			
481	tgcggggttc	tccaccgcga	catcaaggac	gagaacatct	taatcgacct	gagccgcggc
541	gaaatcaaac	tcatcgactt	cgggtcgggg	gcgctgctca	aggacacagt	ctacacggac
601	tttgatggga	cccgagtgta	cagtcctcca	gagtggattc	gctaccatcg	ctaccacggc
661	aggtcggcag	ctgtctggtc	ccttgggatc	ctgctctatg	acatggtctg	cggagatatt
721	ccgtttgagc	acgatgaaga	gatcatcaag	ggccaagtgt	tcttcaggca	aactgtctct
781	tcagagtgtc	agcaccttat	taaatggtgc	ctgtccctga	gaccgtcaga	teggeeetee
841	tttgaagaaa	tccggaacca	tccgtggatg	cagggtgacc	tcctgcccca	ggcagcttct
901			gtcaccggga			

1	mllskinsla	hlrarpcndl	hatklapgke	keplesqyqv	gpllgsggfg	svysgirvad
61	nlpvaikhve	kdrisdwgel	pngtrvpmev	vllkkvssdf	sgvirlldwf	erpasivili
121	erpepyadlf	dfitergalg	edlargffwq	vleavrhchn	cgvlhrdikd	enilidlsrg
181	eiklidfasa	allkdtvvtd	fdqtrvyspp	ewiryhryhg	rsaavwslgi	llydmvcgdi
241	pfehdeeiik	gqvffrqtvs	secqhlikwc	lslrpsdrps	feeirnhpwm	qgdllpqaas
301	eihlhslspg	ssk				

-		cgcagagtgc	caccacctca	tecaataata	cctatcccta	caaccctcaa
1	eccaegegre	cycayaycyc	cagcagccga		actagagagt	agaaaaaaa
61	agcggccgtc	gctggatcag	attgcggccc	acccciggat	gergggger	gacgggggcg
121	ccccggagag	ctgtgacctg	cggctgtgca	ccctcgaccc	tgatgacgtg	gccagcacca
181	cgtccagcag	cgagagcttg	tgaggagctg	cacctgactg	ggagctaggg	gaccacctgc
241	cttqqccaqa	cctgggacgc	ccccagaccc	tgactttttc	ctgcgtgggc	cgtctcctcc
301	tqcqqaaqca	gtgacctctg	acccctggtg	accttcgctt	tgagtgcctt	ttgaacgctg
361	atcccacaaa	acttggtttt	ctcaagctct	gtctgtccaa	agacgctccg	gtcgaggtcc
421	cacctaccct	gggtggatac	ttgaacccca	gacgcccctc	tgtgctgctg	tgtccggagg
481	caaccttccc	atctgcctgc	ccacccggag	ctctttccgc	cggcgcaggg	tcccaagccc
541	acctcccgcc	ctcagtcctg	cggtgtgcgt	ctgggcacgt	cctgcacaca	caatgcaagt
601	cctqqcctcc	gcgcccgccc	gcccacgcga	gccgtacccg	ccgccaactc	tgttatttat
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781	aggggagggg	gtggctgtgg	tccagggacc	ccaggccctg	attcctgtgc	ctggcgtctg
841	tcctqqcccc	gcctgtcaga	agatgaacat	gtatagtggc	taacttaagg	ggagtgggtg
901	accctgacac	ttccaggcac	tgtgcccagg	gtttgggttt	taaattattg	actttgtaca
961	atctacttat	gggctctgaa	agctggggtg	gggccagagc	ctgagcgttt	aatttattca
1021	gtacctgtgt	ttgtgtgaat	gcggtgtgtg	caggcatcgc	agatgggggt	tctttcagtt
1081	caaaagtgag	atgtctggag	atcatatttt	tttatacagg	tatttcaatt	aaaatgtttt
1141		aaaaaaaaaa				

٦	agat agaga	gctgccgtct	acqqqcttcc	acacaaccac	caaacaacta	caccacacaa
1	cyclogycca	gagcgctcgg	actgggcccc	gtggggtcac	ccacactata	tacaatcaa
61		tecegegtee				
121	aagaccgccc	cetegegeee	ttagastasa	taacacacat	ctacaaacct	gagaggaaa
181	eegegatget	gctgtccaag	atagagagag	agaagggga	cagaggaaa	ttccacaaac
241	accacctccc	agtgaagatc	ctacagecag	ccaaggcgga	caaggagage	acagagaagg
301	tgtaccaggt	gggcgccgtg	ereggeageg	geggerregg	gaaggaagga	gegggeagee
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421	ggggcagtct	cggcggaatg	geegtgeeee	tggaggtggt	getgetgege	aaggugggeg
481	cggcgggcgg	cgcgcgcggc	gtcatccgcc	tgctggactg	gttcgagcgg	ceegaegget
541	tcctgctggt	gctggagcga	cccgagccgg	cacaggacct	cttcgacttc	atcactgaac
601	geggegeeet	ggacgagcct	ctggctcgtc	gcttcttcgc	gcaggtgctc	gccgctgtgc
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721	acttgcgctc	gggcgagctg	aagctcatcg	acttcggctc	gggcgcggtg	ctcaaggaca
781	cggtctacac	tgactttgat	ggcacccgtg	tgtacagccc	cccagagtgg	atccggtatc
841	atcgatatca	cgggcggtct	gccactgtgt	ggtctctggg	tgtactgctc	tacgacatgg
901	tgtgtgggga	cattcccttt	gagcaggatg	aggagatctt	gcgcggcagg	ctctttttcc
961	ggaggagggt	ctccccagag	tgccagcagc	ttattgagtg	gtgtctctcc	ctgcggccct
1021	cagagaggcc	ctcgctggac	caaattgctg	cccatccctg	gatgctgggg	acagagggca
1081	gcgttccaga	gaactgtgac	cttcggctct	gtgccctgga	tactgatgac	ggagccagta
1141	ccacttccag	cagtgagagc	ttgtgaggag	gaggagggc	ctggactcca	cactgggggc
1201	ctgggctcag	cctagccagc	cctctcccag	aatgaacatt	ttctgcctgg	gatgtctcct
1261	gcaaaagcag	tgacctctga	cccctggtga	cctttgctct	cggcaccggg	cctgtttcct
1321	ttqctttqaq	tgcctttttg	aacgctgctc	cacagggcct	gggttttctt	gagctcttct
1381	qtccaaaqat	ggctgcgggc	taagcaaggt	cccgcctgcc	ctgggtggat	acttgaaccc
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1501	gagcgccctg	tggtgcccac	ctccaaccct	ccagtctcct	ggtcttcgtc	tgggcatgtc
1561	tgcacaagca	atgcaacgct	gggccactgc	tgcccgcctg	cctccctggc	accgcacgca
1621	acgagcgtgc	cacggtctct	tatttatqqt	gtgatcaccc	tggagggcgc	ccctgccctg
1681	ctggggctat	ttattgttta	atttatttqc	tgaggttact	tcctccaagc	aaccaccttc
1741	t.ccaggcccc	tggggtgttc	aggaaagcca	aggatagcca	ttcaqtccac	agacggcatc
1801	ctaatteeta	cacctgcagt	aggtccctaa	ccccatqttt	qtqqqaqqaq	qaatttgtac
1861	agtggctaat	ttaaggggag	taggagaccc	tatcacccta	ggcactctgc	gctggggagg
1921	gggtttaaat	tattgacctt	gtacagtctg	cttactaact	ctgaaagctg	gagtagaga
1981	cagagtetea	agcccttaat	ttattttage	aactgtgttc	tataacccta	gtgtgagtag
2041	acatcaggg	tggggttgta	taaqttcaaa	agtgtgaaat	gtctggagat	catatttttt
		ttcaattaaa			JJJJ	
$\nabla T \cap T$	acacayycac	Licaaccaaa	cgccccggca			

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Fig. 2 c)

1	mllskfqsla	hlcqpqqvdh	lpvkilqpak	adkesfekvy	qvgavlgsgg	fgtvyagsri
61	adglpvavkh	vvkervtewg	slggmavple	vvllrkvgaa	ggargvirll	dwferpdgfl
121	lvlerpepag	dlfdfiterg	aldeplarrf	faqvlaavrh	chncgvvhrd	ikdenllvdl
181	rsgelklidf	gsgavlkdtv	ytdfdgtrvy	sppewiryhr	yhgrsatvws	lgvllydmvc
241	qdipfeqdee	ilrgrlffrr	rvspecqqli	ewclslrpse	rpsldqiaah	pwmlgtegsv
301	pencdlrlca	ldtddgastt	sssesl			

11

				~~~~~~~~	tanaantaa	caactctact
1	gcagggcggg	tgagagcgcc	gtgaaageeg	cggaacgccg	aggagggtt	ggtgaaagga
61	acggcaagct	agtccggacg	ggtcgtcgtc	cccgcgcgcc	accageceee	2020000333
121	cagggagcgt	ccggcttccc	cagcaccgcc	ctgcgagact	caaaacagee	gaaggataga
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361	agcgctcggc	ctcggggccg	tgggatccgc	cgcgctgtct	gcggtcagga	agaccgccct
421	cccgcgtcct	tgccggacgg	gtcagaggcg	gcaccgcacg	cgaggccacc	cgcgatgctg
481	ctgtccaagt	tcggctccct	ggcgcacctc	tgcgggcctg	gcggcgtgga	ccacctccca
541	gtgaagatcc	tacagccagc	caaggctgac	aaggagagct	tcgagaaggt	gtaccaggtg
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781	gcgcgcggcg	tcatccgctt	gctggactgg	ttcgagcggc	ccgacggctt	cttgttggtg
841	ctqqaqcqac	ccgagccggc	acaggacctc	ttcgacttca	tcactgaacg	aggcgccctg
901	gacgagccgc	tggcgcgtcg	cttcttcgcg	caggtgcttg	ccgctgtgcg	gcactgccac
961	aattqtqqqq	tcgtgcaccg	cgacatcaag	gacgagaacc	tgctggtgga	cctgcgctcg
1021	ggagagetga	agctcatcga	cttcggctcg	ggcgcggtgc	tcaaggacac	ggtctacact
1081	gactttgatg	qcacccgtgt	gtacagcccc	ccagagtgga	tccgatatca	ccgatatcac
1141	agacaatcta	ccactgtgtg	gtctctgggt	gtactgctct	acgacatggt	gtgtggggac
1201	attccctttq	agcaggatga	ggagatcttg	cgcggcaggc	tctttttccg	gaggagggtc
1261	tccccagagt	gccagcagct	tattgagtgg	tgtctctccc	tgaggccctc	agagaggccc
1321	tccctqqacc	aaattgctgc	ccacccctgg	atgctgggga	cagaggggag	cgttccagag
1381	aactgtgacc	ttcggctttg	tgccctggat	actgacgacg	gagccagtac	cacttccagc
1441	agtgagagct	tqtgaggagg	agaaggggcc	tgggctcggc	ctagccagcg	ctctcccaga
1501	attgaacact	ttctgcctgg	gatgtctgct	gcaaaagcag	tgacctctga	cccctggtga
1561	cctttqctct	cggcaccggg	cctgtttcct	ttgctttgag	tgcctttttg	aacgctgctc
1621	cacagggcct	gggttttctt	gagctcttct	gtccaaagat	ggctgagggc	taagcaaggt
1681	cctqccctqq	gtggatactt	gaaccagaga	tcccgaccct	gctgctccat	ctcaggaggc
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1801	cagtctcctg	gtgttcatct	. gggcatgtct	gcacaagcaa	tgcaacgctg	ggccactgct
1861	gcccgtctgc	ctccccggca	. cggcacggct	ccgcacgcaa	cctaagcgtg	ccaccacggt
1921	ctcttattta	tqqtqtgatc	accctggagg	gegeeeeege	cctgctgggg	ctatttattg
1981	tttaatttat	ttgctgaggt	tcctccaago	: aaccaccttc	tccaggcccc	tggggtgttg
2041	aaaqtcaaat	gtggctgttg	, agtccacaga	ccccatcct	aattcctgca	cctggaggag
2101	ttccccaacc	cccgtgtttg	cgggaggaag	, catttgtaca	gtggctaatt	taaggggagt
2161	gggagaccct	gtcaccctga	gcactctgcg	r ctggggaggg	gtttaaatta	ttgaccttgt
2221	acagtctgct	tgctggctct	gaaagctggg	, gttgggggac	agagtctcaa	gcccttaatt
2281	tattttagca	qctqtqtttc	tgtgaccctg	<sub>J</sub> gtgtgactaa	. gcatcagggg	tggggttgta
2341	taagttcaaa	agtgtgaaat	gtctgaagat	: catattttt	atacaggtat	ttcaattaaa
2401	tgttttggta	ı tataatggaa	a aaaaaaaaa	a aaaaaaaaaa	aaaaaaa	

Fig. 2 e) 11 / 18

1	MLLSKFGSLA	HLCGPGGVDH	LPVKILQPAK	ADKESFEKVY	QVGAVLGSGG	FGTVYAGSRI
	ADGLPVAVKH					
121	LVLERPEPAQ	DLFDFITERG	ALDEPLARRF	FAQVLAAVRH	CHNCGVVHRD	IKDENLLVDL
181	RSGELKLIDF	GSGAVLKDTV	YTDFDGTRVY	SPPEWIRYHR	YHGRSATVWS	LGVLLYDMVC
241	GDIPFEQDEE	ILRGRLFFRR	RVSPECQQLI	EWCLSLRPSE	RPSLDQIAAH	PWMLGTEGSV
301	PENCDLRLCA	LDTDDGASTT	SSSESL			

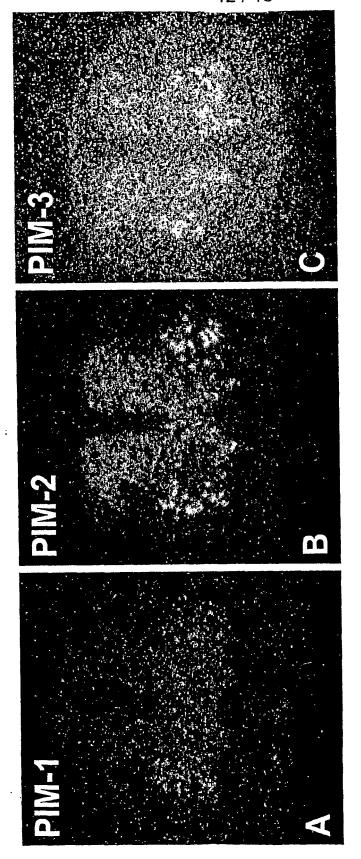


Fig. 3: mRNA Expression of PIM-kinases in the Lumbar Marrow of the Adult Rat

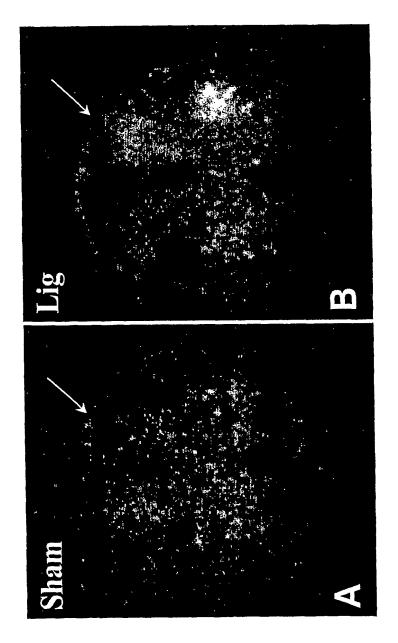
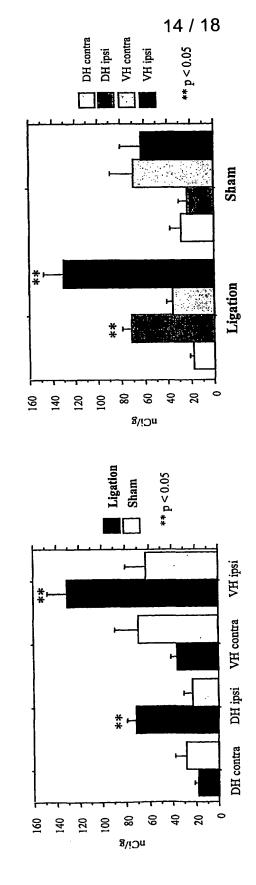
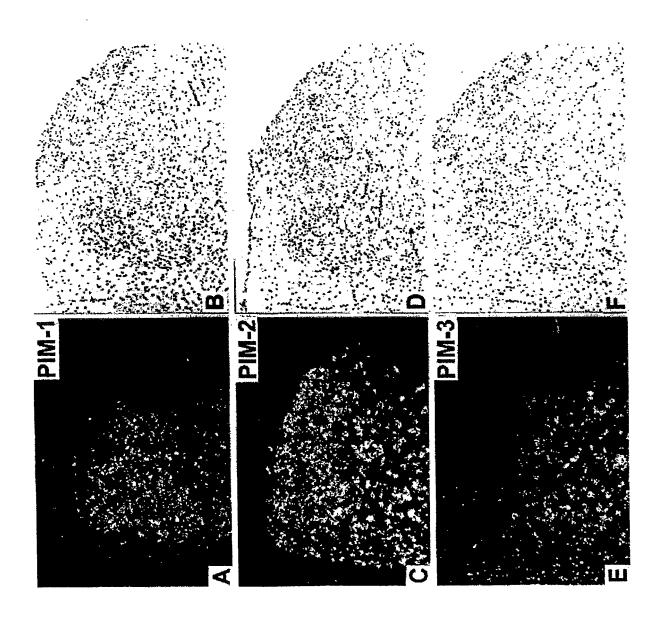


Fig 4: Changes in PIM-1 Gene Expression in the Spinal Cord (L5) after Ischiadicus Ligature (Bennett)

Fig. 5: PIM-1 mRNA Level in the Lumbar Marrow (L5) after Bennett Ligature - Quantitative Evaluation of the in situ Hybridization Results -



Group	Region	Measurements Mean Value (nC1/g)	Mean Value	(nC1/g)	SD	SEM
Ligation	DH contra	1.7		17,95	14,89	3,61
Ligation	DH ipsi	17		71,61	30,05	7,29
Ligation	VH contra	17		35,19	22,37	5,43
Ligation		1.7		129,83	74,83	18,15
argacion shem	DH Contra	, o		27,64	29,68	68'6
Sham	DH insi	, o		21,94	24,52	8,17
Sham	VH contra	, o		69,30	57,77	19,26
Sham	VH ipsi	, o		62,33	52,31	17,44



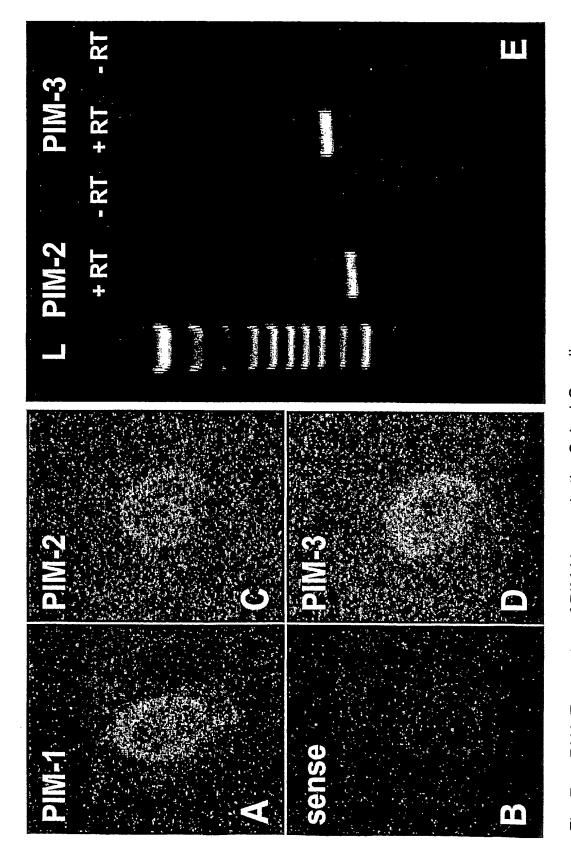


Fig. 7: mRNA Expression of PIM-kinases in the Spinal Ganglion

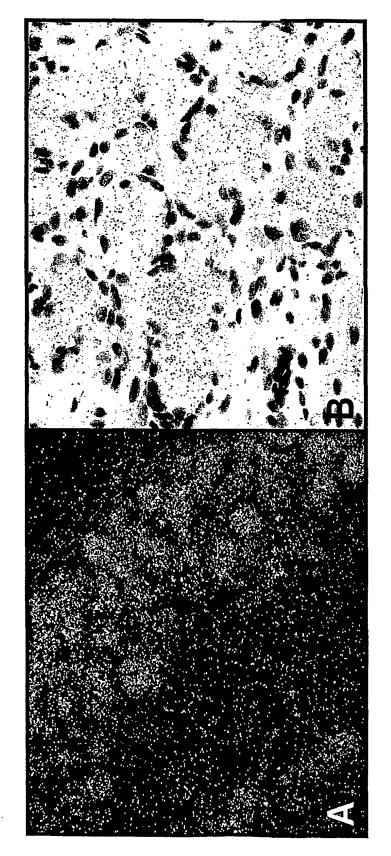


Fig. 8: Localization of PIM-1 Gene Expression in the Spinal Ganglion (L6) of the Rat with *in situ* Hybridization

CFA PIM-3

SHAM PIM-3

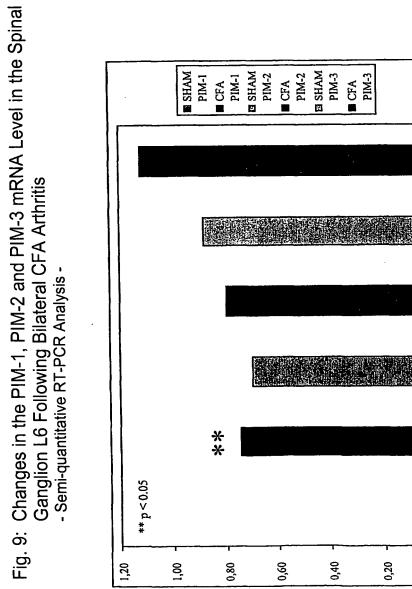
CFA PIM-2

SHAM PIM-2

CFA PIM-1

SHAM PIM-1

0,00



**%IOD/IOD GYDDH**